



Mine Safety Appliances Company – P.O. Box 427- Pittsburgh, PA 15230-0427

Telephone: 724-776-8600

To whom it may concern:

P/N 10058054 is MSA Solaris® Multigas Detector, sold for use as personal protection instrumentation, is considered an article as defined in 29CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard and no MSDS is required for this product.

This product contains a printed circuit board, which contains lead, a plastic case, and several sensors and a lithium ion battery. In order to aid in your understanding the Content Information Sheets for the components of concern are attached.



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To whom it may concern:

MSA P/N 10046936, a Series 20 oxygen sensor used in many portable monitoring devices, is considered an article as defined in 29 CFR 1910.1200 (c). Articles are exempt from the OSHA Hazard Communication Standard and therefore no MSDS is required for this product. In order to aid in your understanding of the contents of this sensor, the following table lists chemical components within the sensor at the time of manufacture.

CHEMICAL COMPONENTS	QUANTITY
Potassium Acetate Gel	≤ 5 ml
Lead (all or part of the lead may be in the form of lead acetate)	≤ 20 grams

Please note that the environment in which you used the sensor may have impacted its contents and that it is your responsibility to dispose of the sensor in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

Should you have additional questions contact MSA at the above phone number.

Creation Date – July 6, 2006

Revision 1: February 16, 2009



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To whom it may concern:

MSA P/N 10020365 is a carbon monoxide sensor used in portable instruments sold for use as personal protection instrumentation. This item is considered an article as defined in 29 CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard; therefore no MSDS is required for this product. In order to aid in your understanding the contents of this sensor the following table lists potential hazardous components within the sensor at the time of manufacture.

POTENTIAL HAZARDOUS COMPONENTS		QUANTITY
Pellet composed of	Teflon powder	< 0.5 g
	Silica	< 0.5 g
	Sulfuric acid (fuming)	< 0.5 g
	water	< 0.5 g
Platinum		<0.1 g

Please note that environment in which this sensor was exposed during use may have impacted its contents and that it is your responsibility to dispose of the sensor in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

Should you have additional questions please contact MSA at the above phone number.

Creation Date : May 20, 2005

Revision 1: February 16, 2009



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To whom it may concern:

MSA P/N 10020366 is a hydrogen sulfide sensor used in portable instruments sold for use as personal protection instrumentation. This item is considered an article as defined in 29 CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard; therefore no MSDS is required for this product. In order to aid in your understanding the contents of this sensor the following table lists potential hazardous components within the sensor at the time of manufacture.

POTENTIAL HAZARDOUS COMPONENTS		<u>QUANTITY</u>
Pellet composed of	Teflon® powder	<0.05 g
	Silica	<0.05 g
	Sulfuric acid (6.7N)	<0.05 g
	Iridium black	<0.5 g
	Graphite	<0.05 g
Platinum		<0.1 g

Please note that environment in which this sensor was exposed during use may have impacted its contents and that it is your responsibility to dispose of the sensor in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

Should you have additional questions please contact MSA at the above phone number.

Creation Date : January 2006

Revision 1: February 16, 2009



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To whom it may concern:

MSA P/N 10045988, the battery pack used in the MSA Solaris® Multigas Detector, is considered an article as defined in 29CFR 1910.1200 (c). Articles are exempt from the Hazard Communication Standard and no MSDS is required for this product. In order to aid in your understanding the contents of this battery pack the following table lists potential hazardous components within the battery pack at the time of manufacture.

POTENTIAL HAZARDOUS COMPONENTS	QUANTITY
Lithium Cobaltate (LiCoO ₂)	< 16 g
Aluminum	< 16g
Graphite	< 8 g
Copper	< 6 g
Organic Electrolyte (inflammable liquid)	< 8 g

The state of charge of the battery as well as the environment in which you used the battery pack may have impacted its contents. It is your responsibility to dispose of spent battery packs in accordance with local, state, and federal laws and regulations. Please provide this information to your regulatory affairs and/or safety officer.

Should you have additional questions contact MSA at the above phone number.

Creation Date – April 2007

Revision 1: – February 16, 2009